

EXHIBIT NO. E-1

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

SEPTEMBER, 1991

STRUCTURE TOP
80 meters AGL
408 meters AMSL

PROPOSED CHANNEL 224 (92.7 MHZ) ANTENNA
Center of radiation: 76 meters AGL
404 meters AMSL

EXISTING K67DY ANTENNA
71 meters AGL

EXISTING KHAP (FM) ANTENNA
58 meters AGL

GROUND ELEVATION 328 METERS AMSL

NOT DRAWN TO SCALE

EXHIBIT NO. E-2

PAGE 1 OF 2

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

CHANNEL 224 (92.7 MHZ), CHICO, CA

SEPTEMBER, 1991

The proposed antenna will be side-mounted on the same tower which now supports the FM antenna of KHAP (channel 206, 89.1 MHz) and the TV antenna of K67DY. Separation between the proposed antenna and the antennas of these two stations is great enough that no interference should result. There are no other FM or TV stations within 60 meters of the proposed antenna.

The distance to the proposed station's blanketing contour is 788 meters, as calculated by the method in section 73.318(a) of the FCC rules. There are no government receiving stations, cable head-end facilities or populated areas within the blanketing contour. There are broadcast auxiliary stations in the vicinity which should not be adversely affected by operation of the proposed facility.

As shown on page 2 of this exhibit, there are other FM and TV stations within 10 km of the proposed antenna.

If operation of the proposed facility were to produce any objectionable interference to existing or authorized facilities or to radio receivers in use prior to grant of this application, the applicant accepts full responsibility for the elimination of the same.

EXHIBIT NO. E-2

PAGE 2 OF 2

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

CHANNEL 224 (92.7 MHZ), CHICO, CA

SEPTEMBER, 1991

Site survey program within 10.0 km

Title: Chico Site Survey

Coordinates: 39-43-37 121-40-45

The nearest FCC monitoring station is 222 km distant at Livermore, CA

This site is 897 km distant from the US/Mexican border.

This site is 956 km distant from the US/Canadian border.

Call Type	sign	Chan	Auth	Height (m)	Power (kW)	City	State	Bear. (deg)	Dist. (km)
PL						Flatiron	CA	324.4	1.63
PL						Castle Rock	CA	348.7	1.70
PL						Little Butte Creek	CA	293.7	1.92
PL						Elliot Spring House	CA	164.1	2.08
PL						Carson Spring	CA	309.7	2.22
AM	KKXX	930	CP	78	1	MULBERRY	CA	.0	.00
AM	KKXX	930	LIC	78	1	PARADISE	CA	.1	.31
AM	KHSL	1290	LIC	95	5	CHICO	CA	274.5	9.20
AM	KPAY	1060	LIC	66	10	CHICO	CA	259.0	9.58
FM	KHAP	206	LIC	87	12	CHICO	CA	.0	.00
FM	KNVR	244	LIC	100	3	PARADISE	CA	1.7	6.29
FM	KZFR	211	LIC	179	6.30	CHICO	CA	26.9	9.97
FM	KCHH	224	LIC	189	.73	PARADISE	CA	26.9	9.97
TV	K67DY	67	LIC	113	.62	CHICO, ETC.	CA	.0	.00
TV	K67DY	67	APP		1.86	CHICO, ETC.	CA	.0	.00
TV	K59EA	59	CP	135	2.21	CHICO-PARADISE	CA	1.7	6.29

Type	Name/ Location	HtAGL (m)	HtAMSL (m)	City	State	Bear. (deg)	Dist. (km)
TW	4 MILES W OF	80	408	PARADISE	CA	.0	.00
TW	3.8MLS WEST SKYWAY D	80	408	PARADISE	CA	.0	.00
TW	3.8 MILES WEST, SKYWA	80	408	PARADISE	CA	.0	.00
TW	4 M W OF PARADISE	80	408	PARADISE	CA	270.0	.05
TW	3.8 M W OF	80	408	PARADISE	CA	.1	.31
TW	VISTA VIEW RD	43	515	PARADISE	CA	58.5	4.32
TW	200 FT N NEAL RD & S	44	520	PARADISE	CA	58.0	4.38
TW	PARADISE AIR CTR LOU	12	422	PARADISE	CA	106.1	5.70
TW	2.4 MILES LN W KOF	53	541	PARADISE	CA	1.7	6.29
TW	6083 SKYWAY	18	591	PARADISE	CA	52.2	7.22
TW	3 MILES EAST OF	86	273	CHICO	CA	291.8	7.25
TW	6178 BURKSHIRE WAY	46	594	PARADISE	CA	48.5	8.08
TW	2.5 MI SE OF	50	111	CHICO	CA	255.9	8.47
TW	8822 SKYWAY	46	728	PARADISE	CA	66.2	8.92
TW	1700 BRUCE RD	95	156	CHICO	CA	274.5	9.20
TW	SIMMONS RESIDENCE	21	162	CHICO	CA	297.4	9.48
TW	ON CHICO-CENTERVILLE	68	140	CHICO	CA	259.0	9.58
TW	NIMSEW RD	61	743	PARADISE	CA	26.9	9.97
TW		61	743	PARADISE	CA	26.9	9.97
TW	3.4MLS NORTH	65	747	PARADISE	CA	26.9	9.97
AP	PARADISE SKYPARK		1300	PARADISE	CA	109.3	5.80

EXHIBIT NO. E-4

PAGE 2 OF 2

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

CHANNEL 224 (92.7 MHZ), CHICO, CA

SEPTEMBER, 1991

Service contours based on FCC F(50,50) curves

Title: Chico Contours
Channel: 224

Bearing (degrees)	HAAT (meters)	ERP (kiloWatts) (dBk)	70 dBu (3.16 mV/m) contour	60 dBu (1 mV/m) contour
.0	-71.0	4.000 6.021	8.1 km	14.3 km
45.0	-171.0	4.000 6.021	8.1 km	14.3 km
90.0	-68.0	4.000 6.021	8.1 km	14.3 km
135.0	164.0	4.000 6.021	19.0 km	32.3 km
180.0	302.0	4.000 6.021	25.3 km	42.2 km
225.0	323.0	4.000 6.021	26.1 km	43.4 km
270.0	302.0	4.000 6.021	25.3 km	42.2 km
315.0	172.0	4.000 6.021	19.4 km	33.1 km
	----- HAAT: 119.0			

EXHIBIT NO. E-5

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

CHANNEL 224 (92.7 MHZ), CHICO, CA

SEPTEMBER, 1991

DEMONSTRATION OF COMPLIANCE WITH
MINIMUM DISTANCE SEPARATION REQUIREMENTS WITH
REGARD TO STATIONS SEPARATED BY 53 OR 54 CHANNELS

Call City of License	Auth Licensee name St FCC File no.	Chan ERP-kw Freq EAH-m	Latitude Longitude	Br-to -from	Dist. (km)	Req. (km)
KUKI-FM LIC UKIAH	FENTON BROADCASTING INCO CA BLH-6416	277B 1.90 103.3 561	39-19-36 123-16-12	252.4 71.4	143.8 128.8	15 CLEAR
KCHH PARADISE	CP KRIJ PARTNERS, A CA LTD CA BMPH-910114IB	278B1 1.65 103.5 376	39-57-29 121-42-50	353.4 173.4	25.83 13.83	12 CLOSE

EXHIBIT NO. E-6

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

CHANNEL 224 (92.7 MHZ), CHICO, CA

SEPTEMBER, 1991

Title: Chico Channel Study
Channel 224A (92.7 MHz)
Database: DW 08/19/91

Latitude: 39-43-37
Longitude: 121-40-45
Safety zone: 30 km

Call	Auth	Licensee name	Chan	ERP-kw	Latitude	Br-to	Dist.	Req.
City of License	St	FCC File no.	Freq	EAH-m	Longitude	-from	(km)	(km)
KWWN	LIC	SPECTRUM BROADCASTING LT	221A	1.20	38-43-07	145.5	135.5	31
PLACERVILLE	CA	BLH-860121KF	92.1	136	120-47-40	326.1	104.5	CLEAR
Was KHTN 02/01/90 per FCC release #127 dated 02/09/90								
KRED-FM	LIC	HOFF BROADCASTING INCORP	222C	100	40-43-36	300.5	224.6	95
EUREKA	CA	BLH-791207AI	92.3	471	123-58-23	119.0	129.6	CLEAR
Was KPDJ 07/21/86; Affiliated with KRED(AM)								
KGBY	LIC	GROUP W RADIO INCORPORAT	223B	50	38-42-26	171.2	114.6	113
SACRAMENTO	CA	BLH-890405KF	92.5	137	121-28-33	351.3	1.560	CLOSE
Was KAER 02/26/91 per FCC release #152 dated 02/22/91; Affiliated with KFBK(AM)								
KGBY	CP	GROUP W RADIO INCORPORAT	223B	39	38-42-26	171.2	114.6	113
SACRAMENTO	CA	BPH-900302IB	92.5	108	121-28-33	351.3	1.560	CLOSE
CP Granted 04/27/90 per FCC release #20845 dated 05/03/90; Was KAER 02/26/91 per FCC release #152 dated 02/22/91; Affiliated with KFBK(AM)								
KCHH	LIC	KRIJ PARTNERS, A CA LTD	224A	.73	39-48-25	26.9	9.967	115
PARADISE	CA	BLH-831031AK	92.7	189	121-37-35	206.9	-105	SHORT
Deletion proposed; ORDERED TO 278B1; Network: SMN; Was KRIJ 04/16/90 per FCC release #132 dated 04/20/90								
ALLOC			224A		39-43-54	272.3	13.66	115
CHICO	CA	DOC-90-185	92.7		121-50-18	92.2	-101	SHORT
Granted effective 08/26/91, adopted 06/26/91, released 07/12/91; Filing window 08/27-09/26/91; DOC-90-185								
KHTT	LIC	FULLER-JEFFREY BCG CORPO	225B	2.30	38-45-45	223.4	146.7	113
HEALDSBURG	CA	BLH-791211AJ	92.9	594	122-50-24	42.6	33.65	CLEAR
Was KRED 05/11/89; Affiliated with KSRO(AM)								
KZSR	LIC	SURE BROADCASTING INC	225C	44.7	39-39-08	91.8	190.3	165
RENO	NV	BLH-901228KC	92.9	809	119-27-46	273.2	25.31	CLEAR
Was KWNJ 07/27/90 per FCC release #139 dated 07/27/90; License Granted 04/30/91 per FCC release #21108 dated 05/08/91; Ant: Jampro JHPC-4								
KXGO	LIC	STARDUST CORPORATION	226C	100	40-43-36	300.5	224.5	95
ARCATA	CA		93.1	500BT	123-58-19	119.0	129.5	CLEAR
KSUE-FM	LIC	SIERRA BROADCASTING CORP	227C	100	40-27-13	49.1	124.3	95
SUSANVILLE	CA	BLH-860716KA	93.3	352	120-34-14	229.8	29.29	CLEAR
Affiliated with KSUE(AM)								

>> End of channel 224A study <

EXHIBIT NO. E-7

WESTERN INSPIRATIONAL BROADCASTERS, INC.

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

CHANNEL 224 (92.7 MHZ), CHICO, CA

SEPTEMBER, 1991

DEMONSTRATION OF COMPLIANCE WITH FCC-SPECIFIED GUIDELINES
FOR HUMAN EXPOSURE TO RADIOFREQUENCY RADIATION

GENERAL

To determine compliance with ANSI guidelines, procedures outlined on page 25 of OST Bulletin No. 65 relating to "...mixed or broadband fields where several sources and frequencies are involved" were used to determine the contribution of the KHAP(FM), K67DY and proposed channel 224 antennas. The fraction of the recommended limit incurred within each frequency interval was determined and summed. All calculations were based on "worst-case" levels.

CALCULATIONS

The contribution by the existing KHAP(FM) antenna:

$$\frac{(0.64)(1.64)(24,000 \text{ watts})(1000 \text{ milliwatts/watt})}{3.142(5,800 \text{ cm})^2} = 0.24 \text{ mW/cm}^2$$

$$\frac{0.24 \text{ mW/cm}^2}{1 \text{ mW/cm}^2} = 24\% \text{ of ANSI recommended limit}$$

The contribution by the K67DY antenna (at proposed 1.86 kW):

$$\frac{(2.56)(1.64)(100)(1^2)[(0.4)(1.86 \text{ kW}) + (0.41 \text{ kW})]}{4(3.142)(71 \text{ meters})^2} = 0.008 \text{ mW/cm}^2$$

$$\frac{791 \text{ mHz}}{300} = 2.64 \text{ (ANSI limit at this frequency)}$$

$$\frac{0.008 \text{ mW/cm}^2}{2.64 \text{ mW/cm}^2} = 0.3\% \text{ of ANSI recommended limit}$$

The contribution by the proposed channel 224 antenna:

$$\frac{(0.64)(1.64)(8,000 \text{ watts})(1000 \text{ milliwatts/watt})}{3.142(7,600 \text{ cm})^2} = 0.05 \text{ mW/cm}^2$$

$$\frac{0.05 \text{ mW/cm}^2}{1 \text{ mW/cm}^2} = 5\% \text{ of the ANSI recommended limit}$$

TOTALS:	KHAP(FM)	24.0%
	K67DY	0.3%
	Proposed 224	5.0%

		29.3% of the ANSI recommended limit

SUMMARY

Relative to the ANSI guidelines, the total predicted worst-case level, on the ground, for the combined FM and TV antennas is 29.3% of the guidelines, which is in compliance with ANSI recommendations.

It has been further calculated the height where the combined level equals 100% of ANSI recommendations is approximately 28 meters above ground level.

Access to the base of the KKXX-AM tower is restricted by a fence more than three-meters from the tower base, the distance at which fields from a 1 kW AM station are predicted to fall below the ANSI limit. The area is also posted with warning signs.

HAMLIN CANYON QUADRANGLE

CALIFORNIA-BUTTE CO.

7.5 MINUTE SERIES (TOPOGRAPHIC)

NW/4 OROVILLE 15' QUADRANGLE

1663 1
(PARADISE 1:62 500)

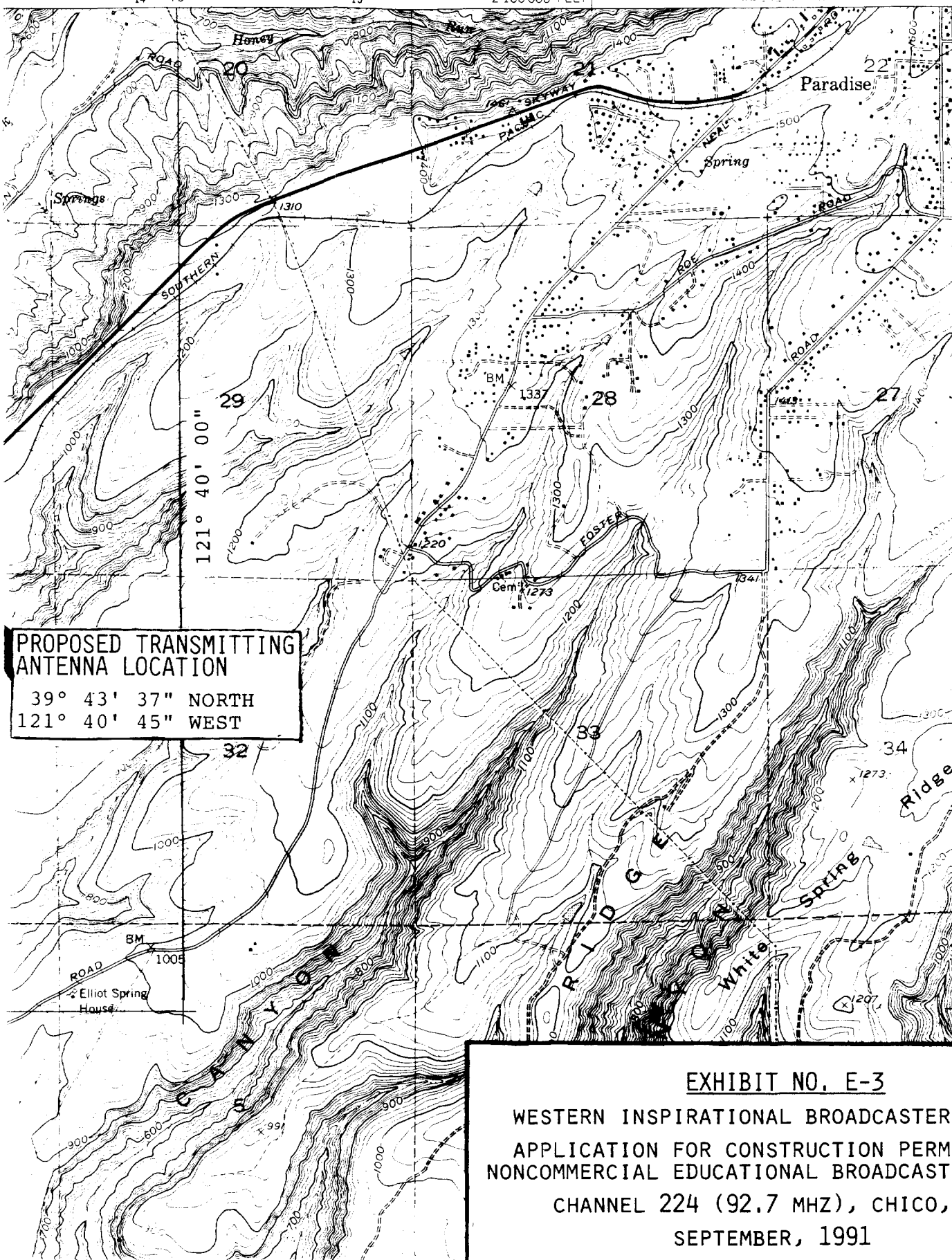
614 40'

615

2 100 000 FEET

121° 37' 30"

39° 45'



**PROPOSED TRANSMITTING
ANTENNA LOCATION**

39° 43' 37" NORTH
121° 40' 45" WEST

EXHIBIT NO. E-3

WESTERN INSPIRATIONAL BROADCASTERS, INC.
APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION
CHANNEL 224 (92.7 MHZ), CHICO, CA
SEPTEMBER, 1991

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
(PARADISE 1:62 500)
R 1 E R 3 E 16631 ✓ ENTERED

